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ABSTRACT OF THE DISCLOSURE

A system, device, and method for bridging network traffic between a first

5   communication interface and a second communication interface uses a pre-computed

bridged routing table to enable a bridge to be established quickly. The pre-computed

bridged routing table includes the second communication interface as an outgoing

interface in each routing table entry having the first communication interface as an

outgoing interface. The bridged routing table is pre-computed for the pair of

10   communication interfaces by searching a main routing table for all main routing table

entries having the first communication interface as an outgoing interface and creating, for

each such main routing table entry, a corresponding bridged routing table entry including

all outgoing interfaces from the main routing table entry and additionally including the

second (bridged) communication interface as an outgoing interface. Bridged routing tables

15   may be pre-computed for multiple potential communication interface pairs.